

<110> Tang, Y. Tom  
Corley, Neil C.  
Guegler, Karl J.  
Arvizu, Chandra  
Baughn, Mariah R.

<120> THIOREDOXIN PROTEINS

<130> PF-0556-1 DIV

<140> To Be Assigned  
<141> Herewith

<150> 09/107,248  
<151> 1998-06-30

<160> 15  
<170> PERL Program

<210> 1  
<211> 172  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1925679

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Gly Lys Gly Phe Gly Asp His Ile His Trp Arg Thr Leu Glu Asp  
35 40 45  
Gly Lys Lys Glu Ala Ala Ser Gly Leu Pro Leu Met Val Ile  
50 55 60  
Ile His Lys Ser Trp Cys Gly Ala Cys Lys Ala Leu Lys Pro Lys  
65 70 75  
Phe Ala Glu Ser Thr Glu Ile Ser Glu Leu Ser His Asn Phe Val  
80 85 90  
Met Val Asn Leu Glu Asp Glu Glu Glu Pro Lys Asp Glu Asp Phe  
95 100 105  
Ser Pro Asp Gly Gly Tyr Ile Pro Arg Ile Leu Phe Leu Asp Pro  
110 115 120  
Ser Gly Lys Val His Pro Glu Ile Ile Asn Glu Asn Gly Asn Pro  
125 130 135  
Ser Tyr Lys Tyr Phe Tyr Val Ser Ala Glu Gln Val Val Gln Gly  
140 145 150  
Met Lys Glu Ala Gln Glu Arg Leu Thr Gly Asp Ala Phe Arg Lys  
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Lys His Leu Glu Asp Glu Leu  
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<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3244141

&lt;400&gt; 2

Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro  
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 Arg Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala  
 20 25 30  
 Leu Leu Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu  
 35 40 45  
 Cys His Gly Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp  
 50 55 60  
 Phe Asp Trp Arg Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile  
 65 70 75  
 Val Met Met Lys Asn Arg Arg Ser Met Phe Leu Met Thr Cys Lys  
 80 85 90  
 Pro Pro Leu Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp  
 95 100 105  
 Lys Thr Ile Asp Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp  
 110 115 120  
 Ile Val Glu Phe Phe Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe  
 125 130 135  
 Ala Pro Ile Tyr Ala Asp Leu Ser Leu Lys Tyr Asn Cys Thr Gly  
 140 145 150  
 Leu Asn Phe Gly Lys Val Asp Val Gly Arg Tyr Thr Asp Val Ser  
 155 160 165  
 Thr Arg Tyr Lys Val Ser Thr Ser Pro Leu Thr Lys Gln Leu Pro  
 170 175 180  
 Thr Leu Ile Leu Phe Gln Gly Gly Lys Glu Ala Met Arg Arg Pro  
 185 190 195  
 Gln Ile Asp Lys Lys Gly Arg Ala Val Ser Trp Thr Phe Ser Glu  
 200 205 210  
 Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu Leu Tyr Gln Arg  
 215 220 225  
 Ala Lys Lys Leu Ser Lys Ala Gly Asp Asn Ile Pro Glu Glu Gln  
 230 235 240  
 Pro Val Ala Ser Thr Pro Thr Thr Val Ser Asp Gly Glu Asn Lys  
 245 250 255  
 Lys Asp Lys

&lt;210&gt; 3

&lt;211&gt; 1440

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1925679

&lt;400&gt; 3

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 cggcctcgtc tcggggccac ctgtttgctg ggcttcagtt tcctgctcct cgtcatctct 180  
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 gaagatggga agaaagaagc agctgccagt ggactgcccc tgatgggtgat tattcataaa 300  
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gaactctccc ataattttgt tatggtaaat cttgaggatg aagaggaacc caaagatgaa 420
gatttcagcc ctgacggggg ttatatccca cgaatccttt ttctggatcc cagtggcaag 480
gtgcatcctg aaatcatcaa tgagaatgga aaccccgctt acaagtattt ttatgtcagt 540
gccgagcaag ttgttcaggg gatgaaggaa gctcaggaaa ggctgacggg tgatgccttc 600
agaaagaaac atcttgaaga tgaattgtaa catgaatgtg ccccttcttt catcagagtt 660
agtgttctgg aaggaaagca gcagggaagg gaattattgag gaatcatcta gaacaattaa 720
gccgaccagg aaacctcatt cctacctaca ctggaaggag cgctctcact gtggaagagt 780
tctgctaaca gaagctggtc tgcattgttg tggatccagc ggagagtggc agactttctt 840
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gacacaaaac ttgagccact tggatgttta ctctctgcac ttaagtattt gagtcttttc 960
ccatttcttc ccactttact caccttagtg gtgaaaggag actagtagca tcttttctac 1020
aacgttaaaa ttgcagaagt agcttatcat taaaaaacia caacaacaac aataacaata 1080
aatcctaagt gtaaatacgt tattctaccc cctaccaagg atatcagcct gttttttccc 1140
ttttttctcc tgggaataat tgtgggcttc ttcccaaatt tctacagcct ctttctctct 1200
ctcatgcttg agcttccctg tttgcacgca tgcgtgtgca ggactggctg tgtgcttgga 1260
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gccctagggt tagccatttt gtcaagtcac caactgtatt tttgtactgg cattaacaaa 1380
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<210> 4

<211> 1555

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3244141

<400> 4

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cgcccaacct tactaccttc tgcgcgccct gctctctgct gccttctctac tcgtgaggaa 180
actgccgcgc ctctgccacg gtctgcccac ccaacgcgaa gacggtaacc cgtgtgactt 240
tgactggaga gaagtggaga tcttgatgtt tctcagtgcc attgtgatga tgaagaaccg 300
cagatccatg ttcttgatga cgtgcaaacc cccctatat atgggccctg agtatatcaa 360
gtacttcaat gataaaacca ttgatagga actagaacgg gacaagaggg tcacttggat 420
tgtggagttc tttgccaatt ggtctaagta ctgccaatca tttgcccta tctatgctga 480
cctctccctt aaatacaact gtacagggtc aaattttggg aagggtggatg ttggacgcta 540
tactgatgtt agtacgcggt acaaaagtga cacatcaccc ctaccaagc aactccctac 600
cctgatcctg ttccaagggt gcaaggaggc aatgcggcgg ccacagattg acaagaaagg 660
acgggctgtc tcatggacct tctctgagga gaatgtgatc cgagaattta acttaaatga 720
gctataccag cgggccaaga aactatcaaa ggctggagac aatatccctg aggagcagcc 780
tgtggcttca acccccacca cagtgtcaga tggggaaaac aagaaggata aataagatcc 840
tcactttggc agtgcttctc ctctgtcaa ttccaggctc tttccataac cacaagcctg 900
aggctgcagc cttttattta tgttttcctt ttggctgtga ctgggtgggg cagcatgcag 960
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gctgtggcca actgtttcac tggagcaaga aagagatctc ataggacgga gggggaaatg 1080
gtttccctcc aagcttgggt cagtgtgtta actgcttctc agctattcag acatctccat 1140
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aagacaatat tgaacaaccc cctattttgt ggggattgag aaggggtgaa tagaggcttg 1440
agactttcct ttgtgtggta ggacttggag gagaaatccc ctggactttc actaacctc 1500
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<210> 5

<211> 212

PF-0556-1 DIV

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1925679H1

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tgggtgtggag cttgcaaagc tctaaagccc aaatttgcag aatctacgga aatttcagaa 120  
ctctcccata attttggttat ggtaaatcctt gaggatgaag aggaacccaa agatgaagat 180  
ttcagccctg acgggggtta tattccacga at 212

<210> 6  
<211> 248  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2456812H1

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gcggcctcgt ctgggggcca cctgtttgct gggtttcagt ttctgctcc tcgtcatctc 180  
ttctgatgga cataatgggc ttggaaagggt ttttgagat catattcatt ggaggacact 240  
ggaagatg 248

<210> 7  
<211> 541  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1925679R6

<220>  
<221> unsure  
<222> 502, 514  
<223> a, t, c, g, or other

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tgggtgtggag cttgcaaagc tctaaagccc aaatttgcag aatctacgga aatttcagaa 120  
ctctcccata attttggttat ggtaaatcctt gaggatgaag aggaacccaa agatgaagat 180  
ttcagccctg acgggggtta tattccacga atcctttttc tggatcccag tggcaagggtg 240  
catcctgaaa tcatcaatga gaatggaaac ccagctaca agtattttta tgtcagtgcc 300  
gagcaagttg ttcaggggat gaaggaagct caggaaaggc tgacgggtga tgccttcaga 360  
aagaaacatc ttgaagatga attgtaacat gaatgtgccc cttctttcat cagagttagt 420  
gttctggaag gaaagcagca gggaaggga tattgaggaa tcatctagaa caattaagcc 480  
gaccaggaaa cctcattcct anctacactg gaangagcgc tctcactgtg gaagagttct 540  
g. 541

<210> 8  
<211> 578  
<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1522838F1

<220>

<221> unsure

<222> 530, 556, 573

<223> a, t, c, g, or other

<400> 8

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ccaaagatga agatttcagc cctgacgggg gttatatattc acgaatcctt tttctggatc 120
ccagtggcaa ggtgcaccc gaaatcatca atgagaatgg aaaccccagc tacaagtatt 180
tttatgtcag tgccgagcaa gttgttcagg ggatgaagga agctcaggaa aggctgacgg 240
gtgatgcctt cagaaagaaa catcttgaag atgaattgta acatgaatgt gccccttctt 300
tcatcagagt tagtgttctg gaaggaaagc agcagggaag ggaatattga ggaatcatct 360
agaacaatta agccgaccca ggaaacctcc attcctacct acactggaag gagcgctctc 420
actgtggaag agttctgcta acagaagctg gtctgcatgt ttgtggatcc agcggagagt 480
ggcagacttt cttctccttt tctctcact aaatgtcaac ttgtcattgn atgtaaagat 540
gaaaccttct gacacnaaac ttgaggccac ttngatgt 578

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<210> 9

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1332915T1

<220>

<221> unsure

<222> 342-370, 570, 572

<223> a, t, c, g, or other

<400> 9

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aaaatacagt tgatgacttg acaaaatggc tacacctagg gcttgaaggt ttgagtttct 120
ccaacagtaa caagggaaag catgcttcca cctggagccg agtccaagca cacagccagt 180
cctgcacacg catgcgtgca aacaggggaag ctcaagcatg agaagaggaa agaggctgta 240
gaaatttggg aagaagccca caattattcc caggagaaaa aagggaaaaa acaggctgat 300
atccttggtg gggggtagaa taactgattt acacttagga tnnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn taatgataag ctacttctgc aattttaacg ttgtagaaaa gatgctacta 420
gtctcctttc accactaagg ttagtaaagt gggagggaat gggaaaagac tcaaatactt 480
aagtgcgagg agtaaacatc caagtggctc aagttttgtg tcagaagggt tcattcttta 540
cattcaatga caagttgaca tttaggtgan anggaaaagg agaagaaagt ctgccactct 600
ccgctggatc cacaacatgc agaccagctt ctggtt 635

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<210> 10

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1458332H1

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 tgtactggca ttaacaaaaa aagagataaa atattgtacc attaaacttt aataaaactt 120  
 taaaagg 127

<210> 11  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3244141H1

<400> 11  
 ggcggtcttg gcacctctaa ttgtctctgt gtattcgggtg ccgcgacttt cagcatggct 60  
 cgcccaacct tactaccttc tgctcgccct gctctctgt gccttcctac tcgtgaggaa 120  
 actgccgccc ctctgccacg gtctgcccac ccaacgcgaa gacgagagaa gtggagatcc 180  
 tgatgtttct cagtgccatt gtgatgatga agaaccgcag atcc 224

<210> 12  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1480867F6

<220>  
 <221> unsure  
 <222> 265, 370, 413  
 <223> a, t, c, g, or other

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 cccaacctta ctaccttctg tcggccctgc tctctgctgc ctctctactc gtgaggaaac 180  
 tgccgcccgt ctgccacggt ctgcccaccc aacgcgaaga cggtaaccgc tgtgactttg 240  
 actggagaga agtggagatc ctgangtttc tcagtgccat tgtgatgatg aagaaccgca 300  
 gatccatgtt cctgatgacg tgcaaaccce ccctatatat gggccctgag tatatcaagt 360  
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 tggggttttt gccaa 435

<210> 13  
 <211> 631  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1709993X25C1

<220>  
 <221> unsure  
 <222> 436, 493, 507, 558, 627-628, 630  
 <223> a, t, c, g, or other

<400> 13

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agtacgcggt acaaagttag cacatcaccc tcaccaagca actccctacc ctgacccgtg 180
tccaaggtgg caaggaggga atgcgggcggc cacagattga caagaaagga cgggctgtct 240
catggacctt ctctgaggag aatgtgatcc gagaatttaa cttaaatgag ctataccagc 300
gggccaagaa actatcaaag gctggagaca atatccctga ggagcagcct gtggcttcaa 360
ccccaccac agtgtcagat ggggaaaaca agaaggataa ataagatcct cactttggca 420
gtgcttcttc tcctgncaat tccaggtctt ttccataaac cacaagcctg aggctgcagc 480
ttttatattt gtnttccctt gggctgngac tgggtggggc agcatgcagc tttctgattt 540
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<210> 14

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2061104R6

<220>

<221> unsure

<222> 98, 217, 348, 378, 458, 480, 488, 491, 516, 521, 531, 545, 548, 553-554, 559, 583, 589, 595, 620, 632-634, 637, 642, 651

<223> a, t, c, g, or other

<400> 14

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gaccttctct gaggagaatg tgatccgaga atttaactta aatgagctat accagcgggc 180
caagaaacta tcaaaggctg gagacaatat ccctgangag cagcctgttg cttcaacccc 240
caccacagtg tcagatgggg aaaacaagaa ggataaataa gatcctcact ttgggcagtg 300
cttctctctc tgtcaattcc tggctctttt cataaccaca agcctgangt gcagctttta 360
tttaattggt tcccttnttg gctgtgactt ggggtggggc agcatgcagc tttctgattt 420
taaaagaggg cattctaggg gaatttggtt aaggcaancc ctaacaggga aagggcctgn 480
ccaattgnct nttggcccaa actgggtttt caactnggga ngccaaagaa naaggggggt 540
cttcnatnag ggnnccggna agggggggga aaattggggt ttncctcctnc caaangcttt 600
tggggttaaa aaatgggttn aaacttgggc tnnntcnagg gntgaatttc ngggagaatt 660

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<210> 15

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1437141T6

<220>

<221> unsure

<222> 14, 17, 19, 79, 477, 486, 508, 529, 544, 547, 551, 559, 572, 585, 588, 591, 595

<223> a, t, c, g, or other

<400> 15

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aagtctcaag cctctattca ccccttctca atccccacaa aataggggggt tgttcaatat 180
tgtcttcaat gataaaaact ttgtgggttaa aggtttctcc ttaggactag cgacaaagtt 240
aggcttatac ttttaatgaa gaccataaac gaagccagaa gggcttaagg aagcaagagt 300
ccttggggga aaattcttag cgttctatac cccagcatct taccttaggg ttaaatctag 360
gtctaacc aa gctgtgcagg tcaactaaga aggaatgatg aaaccacaga gtttcatgga 420
gagaccatgg agatgtctga atagctgata agcagttaac aactgaccc aagcttnag 480
ggaaancatt tccccctcgg tcctaata nag atctctttct ttgctccant gaaaaaagtt 540
tggncanaag natggccang ggctttcctg tnaggggggc ctganaantt nccna 596

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09954846 091701